

OIL ANALYSIS REPORT

MAGENTA NTX [200007685]
Machine Id 27WEA91150

Component

Wind Turbine Gearbox

SHELL OMALA S5 WIND 320 (--- LTR)

Sample Rating Trend VIS DEBRIS Fed2024

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil.

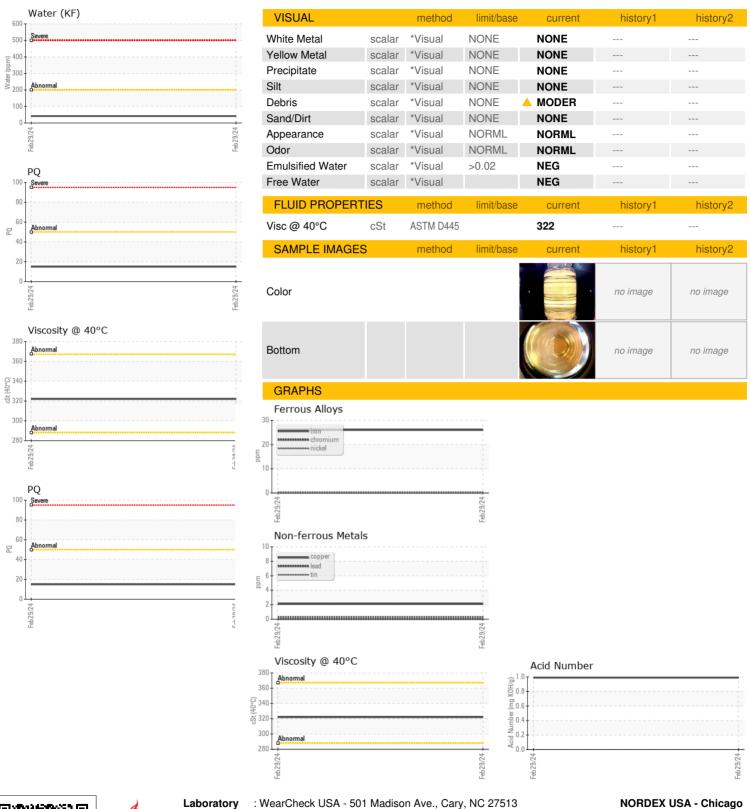
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX012249		
Sample Date		Client Info		29 Feb 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	15		
Iron	ppm	ASTM D5185m	>30	26		
Chromium	ppm	ASTM D5185m	>3	<1		
Nickel	ppm	ASTM D5185m	>3	0		
Titanium	ppm	ASTM D5185m	>10	0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>30	0		
Lead	ppm	ASTM D5185m	>15	0		
Copper	ppm	ASTM D5185m	>10	2		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		1		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		<1		
Phosphorus	ppm	ASTM D5185m		485		
Zinc	ppm	ASTM D5185m		3		
Sulfur	ppm	ASTM D5185m		3996		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+15	7		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304	>0.02	0.004		
ppm Water	ppm	ASTM D6304	>200	42		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.99		



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Laboratory Sample No. Lab Number : 06125622

: NX012249

Received **Tested Unique Number** : 10939773

: 26 Mar 2024 : 26 Mar 2024 - Jonathan Hester Diagnosed

: 21 Mar 2024

300 SOUTH WACKER DRIVE, SUITE 1500

CHICAGO, IL US 60606 Contact: DEVIN LINEHAN

Test Package : IND 2 (Additional Tests: KF, PQ, PrtCount) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: DEVIN LINEHAN - NORDEX

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